

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 April 2004 (01.04.2004)

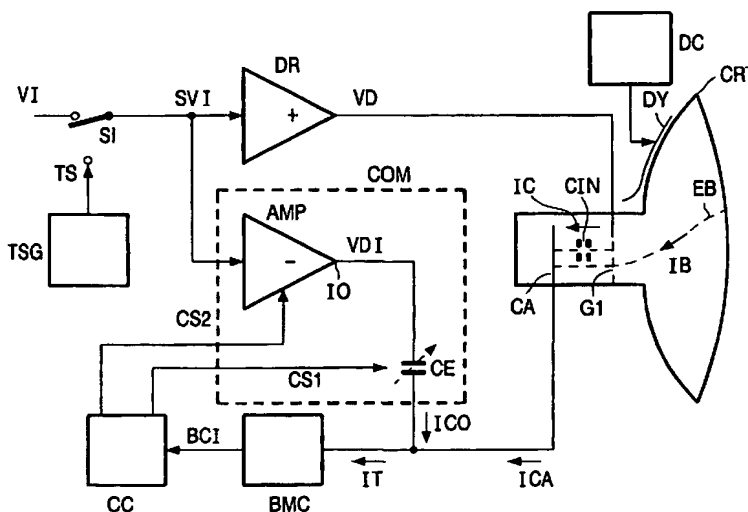
PCT

(10) International Publication Number
WO 2004/028145 A1

- (51) International Patent Classification⁷: **H04N 5/14**, 9/64, 5/68
- (21) International Application Number: **PCT/IB2003/003623**
- (22) International Filing Date: 8 August 2003 (08.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02078865.9 18 September 2002 (18.09.2002) EP
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declaration under Rule 4.17:**
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

[Continued on next page]

(54) Title: **BEAM CURRENT MEASUREMENT**



(57) Abstract: The display apparatus comprises a picture tube (CRT) with an electron gun which generates an electron beam (EB) directed towards a display screen. The electron gun comprises a first and a second electrode (CA, G1). The electron beam (EB) originates from the first electrode (CA). The voltage between the first electrode (CA) and the second electrode (G1) controls the intensity of the electron beam (EB). A beam current (IB) flows in the first electrode (CA) in response to the electron beam (EB). A total current (ICA) in the first electrode (CA) is the sum of the beam current (IB) and a current (IC) flowing through a capacitance (CIN) between the first and the second electrode (CA, G1). A compensation circuit (COM) supplies a compensation current (ICO) to the first electrode (CA) to compensate for a capacitive current (IC) through a capacitance (CIN) between the first and the second electrode (CA, G1). A beam current measurement circuit (BMC) measures the total current (IT) which is the sum of the total current in the first electrode (ICA) and the compensation current (ICO).



CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,

DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

— with international search report

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INTERNATIONAL SEARCH REPORT

PCT/IB 03/03623

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N5/14 H04N9/64 H04N5/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04N G09G H03F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 809 398 A (NIPPON ELECTRIC CO) 26 November 1997 (1997-11-26)	1, 10
A	abstract; figures 1, 2, 4 column 3, line 7 -column 3, line 31 column 4, line 5 -column 5, line 27 ---	2-9
A	US 5 455 635 A (KELLER ANTON W) 3 October 1995 (1995-10-03) abstract column 1, line 54 -column 3, line 44; figures 3, 4, 6, 7 ---	1-10
A	EP 0 840 272 A (WELCH ALLYN INC) 6 May 1998 (1998-05-06) page 2, line 50 -page 3, line 22 abstract; figures 1-3 ---	1-10
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Date of the actual completion of the international search

11 December 2003

Date of mailing of the international search report

30/12/2003

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INTERNATIONAL SEARCH REPORT

PCT/IB 03/03623

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 285 401 B1 (GRIEPENTROG DAL FRANK) 4 September 2001 (2001-09-04) abstract; figures 1,4 -----	1-10

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